

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/DE2005/000143

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F21S4/00  
//F21Y101/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F21S F21P F21Y

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 027 952 A (LIU ET AL) 22 February 2000 (2000-02-22) column 3, line 39 - column 4, line 6 figures 3-5	1-3, 5, 6, 9
Y		4
Y	US 6 371 629 B1 (MARTINEZ JOHN R) 16 April 2002 (2002-04-16) column 6, line 32 - line 46 figures 8,9	4
A		1
X	WO 03/040612 A (HEFTER, CHRISTIAN) 15 May 2003 (2003-05-15)	1, 5, 6, 9
Y	figures 1-3 page 6, line 5 - page 8, line 4 ----- -/-	7, 8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*G\* document member of the same patent family

Date of the actual completion of the international search

23 May 2005

Date of mailing of the international search report

02/06/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/063463 A1 (SLOAN THOMAS C ET AL) 3 April 2003 (2003-04-03) figures 1,2,4 abstract	7,8
A		1,4
X	US 4 654 766 A (TUNG ET AL) 31 March 1987 (1987-03-31) the whole document	1

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DE2005/000143

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6027952	A	22-02-2000	NONE	
US 6371629	B1	16-04-2002	US 6250779 B1	26-06-2001
WO 03040612	A	15-05-2003	DE 10154813 A1	28-05-2003
			WO 03040612 A1	15-05-2003
			EP 1444462 A1	11-08-2004
US 2003063463	A1	03-04-2003	NONE	
US 4654766	A	31-03-1987	GB 2188409 A	30-09-1987